



# MATERIAL SAFETY DATA SHEET

Revision date: 29-Nov-2012

Version: 2.0

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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**Emergency telephone number:**  
**CHEMTREC (24 hours): 1-800-424-9300**  
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**International CHEMTREC (24 hours): +1-703-527-3887**

### Material Name: Alcohol 70% Spray Pack (Sterile)

<b>Trade Name:</b>	Not applicable
<b>Synonyms:</b>	Alcohol 70% Untinted (Squeeze Pack)
<b>Chemical Family:</b>	Mixture
<b>Intended Use:</b>	Pharmaceutical product used as antiseptic, disinfectant

## 2. HAZARDS IDENTIFICATION

**Appearance:** Clear, colorless, liquid  
**Signal Word:** WARNING

**Statement of Hazard:** Flammable liquid and vapor.

### Additional Hazard Information:

**Short Term:** May cause eye irritation. May cause mild skin irritation (based on animal data). Exposure to high concentrations of gas, vapor, or mist may cause irritation.

**Long Term:** Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis, and, if ingested during pregnancy, congenital malformations.

**EU Indication of danger:** Flammable

### EU Hazard Symbols:

F



### EU Risk Phrases:

R11 - Highly flammable.

### Australian Hazard Classification (NOHSC):

Hazardous Substance. Dangerous Goods.

**Note:** This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

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## 2. HAZARDS IDENTIFICATION

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
ETHANOL	64-17-5	200-578-6	F;R11	60-100

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Water	7732-18-5	231-791-2	Not Listed	*

**Additional Information:** \* Proprietary  
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

**Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical or foam.

**Hazardous Combustion Products:** Carbon monoxide and carbon dioxide

**Fire Fighting Procedures:** During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

**Fire / Explosion Hazards:** Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

## 6. ACCIDENTAL RELEASE MEASURES

**Health and Safety Precautions:** Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.

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**Measures for Cleaning / Collecting:** Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

**Measures for Environmental Protections:** Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

**Additional Consideration for Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

### 7. HANDLING AND STORAGE

**General Handling:** Use only in a well-ventilated area. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Keep away from heat, sparks, flame and all other sources of ignition. Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

**Storage Conditions:** Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, flame, and other sources of ignition. Keep container tightly closed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

#### ETHANOL

ACGIH Threshold Limit Value (STEL)	1000 ppm
Australia TWA	1000 ppm
	1880 mg/m <sup>3</sup>
Austria OEL - MAKs	1000 ppm
	1900 mg/m <sup>3</sup>
Belgium OEL - TWA	1000 ppm
	1907 mg/m <sup>3</sup>
Bulgaria OEL - TWA	1000.0 mg/m <sup>3</sup>
Czech Republic OEL - TWA	1000 mg/m <sup>3</sup>
Denmark OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Estonia OEL - TWA	500 ppm
	1000 mg/m <sup>3</sup>
Finland OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
France OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	500 ppm
	960 mg/m <sup>3</sup>
Germany (DFG) - MAK	500 ppm
	960 mg/m <sup>3</sup>
Greece OEL - TWA	1000 ppm
	1900 mg/m <sup>3</sup>
Hungary OEL - TWA	1900 mg/m <sup>3</sup>
Latvia OEL - TWA	1000 mg/m <sup>3</sup>
Lithuania OEL - TWA	500 ppm
	1000 mg/m <sup>3</sup>
Netherlands OEL - TWA	260 mg/m <sup>3</sup>

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA - Final PELs - TWAs:	1000 ppm 1900 mg/m <sup>3</sup>
Poland OEL - TWA	1900 mg/m <sup>3</sup>
Portugal OEL - TWA	1000 ppm
Romania OEL - TWA	1000 ppm 1900 mg/m <sup>3</sup>
Slovakia OEL - TWA	500 ppm 960 mg/m <sup>3</sup>
Slovenia OEL - TWA	1000 ppm 1900 mg/m <sup>3</sup>
Spain OEL - TWA	1000 ppm 1910 mg/m <sup>3</sup>
Sweden OEL - TWAs	500 ppm 1000 mg/m <sup>3</sup>

<b>Engineering Controls:</b>	Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section.
<b>Environmental Exposure Controls:</b>	Refer to specific Member State legislation for requirements under Community environmental legislation.
<b>Personal Protective Equipment:</b>	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
<b>Hands:</b>	Wear impervious gloves.
<b>Eyes:</b>	Wear safety glasses or goggles if eye contact is possible.
<b>Skin:</b>	Wear protective clothing when working with large quantities.
<b>Respiratory protection:</b>	If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Color:</b>	Colorless
<b>Odor:</b>	Alcohol	<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture		

<b>Water Solubility:</b>	Soluble
<b>Boiling Point (°C):</b>	78.5 based on major component Ethanol
<b>Vapor Pressure (kPa):</b>	7.91 (Ethanol)
<b>Vapor Density (g/ml):</b>	1.59 (Ethanol)

<b>Flash Point (Liquid) (°C):</b>	12.8 Closed cup based on major component (Ethanol)
<b>Upper Explosive Limits (Liquid) (% by Vol.):</b>	19
<b>Lower Explosive Limits (Liquid) (% by Vol.):</b>	3.3
<b>Polymerization:</b>	Will not occur

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of use.
<b>Conditions to Avoid:</b>	Keep away from heat, spark, flames and all other sources of ignition.
<b>Incompatible Materials:</b>	Strong oxidizing agents and strong inorganic acids

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### 11. TOXICOLOGICAL INFORMATION

**General Information:** There are no data for this formulation. The information included in this section describes the potential hazards of the individual ingredients.

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### ETHANOL

Rat Oral LD 50 7060 mg/kg  
Mouse Oral LD 50 3450 mg/kg  
Rat Inhalation LC 50 20000 ppm/10H  
Mouse Inhalation LC 50 39 gm/m<sup>3</sup>/4h

#### Irritation / Sensitization: (Study Type, Species, Severity)

##### ETHANOL

Eye Irritation Rabbit Severe  
Skin Irritation Rabbit Mild

#### Carcinogen Status:

Carcinogenicity of the mixture has not been determined. Alcohol is listed as a carcinogen by IARC. The IARC monograph examining the carcinogenic potential of ethanol examined only alcoholic beverages. No other components are listed as carcinogens by IARC, US OSHA or NTP.

##### ETHANOL

IARC: Group 1 (Carcinogenic to Humans)  
OSHA: Listed

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

#### Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

##### ETHANOL

*Oncorhynchus mykiss* (Rainbow Trout) NPDES LC-50 96 Hours 12900 mg/L  
Fingerling Trout NPDES LC-50 24 Hours 11200 mg/L  
Fathead Minnow NPDES LC-50 96 Hours 14200 mg/L

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.

UN number: UN 1170  
UN proper shipping name: Ethanol solution  
Transport hazard class(es): 3  
Packing group: II  
Flash Point (°C): 12.8

Limited Quantity Exceptions apply to small quantities packed in combination packaging. See applicable modal regulations for specific limitations.

### IMDG IMDG

IMDG UN / ID No: UN 1170  
IMDG Proper shipping name: Ethanol solution  
IMDG Hazard Class: 3  
IMDG Packing Group: II  
Flash Point (°C): 12.8

## 15. REGULATORY INFORMATION

EU Symbol: F  
EU Indication of danger: Flammable

EU Risk Phrases:  
R11 - Highly flammable.

EU Safety Phrases:  
S16 - Keep away from sources of ignition - No smoking.  
S25 - Avoid contact with eyes.

OSHA Label:  
WARNING  
Flammable liquid and vapor.

### Canada - WHMIS: Classifications

WHMIS hazard class:  
Class B, Division 2  
Class D, Division 2, Subdivision B



Water

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### 15. REGULATORY INFORMATION

Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex IV - Exemptions from the obligations of Register:	Present
EU EINECS/ELINCS List	231-791-2

#### ETHANOL

California Proposition 65	carcinogen initial date 4/29/11 developmental toxicity initial date 10/1/87
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-578-6

### 16. OTHER INFORMATION

#### Text of R phrases mentioned in Section 3

R11 - Highly flammable.

**Data Sources:** Publicly available toxicity information.

**Reasons for Revision:** Updated Section 4 - First Aid Measures. Updated Section 11 - Toxicology Information. Updated Section 6 - Accidental Release Measures. Updated Section 14 - Transport Information.

**Prepared by:** Product Stewardship Hazard Communication  
Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet**